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| **Practicum Final Exam – Odd Semester Year 2022/2023** | | | | | | |
| **Subject** | | | **COMP6799001 - Database Technology** | | |  |
| **Class** | **:** | **BB01** | | **Start Date** | **: 14 January 2023** |
| **Lecturer** | **:** | **D6667 - Said Achmad, S.Kom., M.Kom** | | **Start Time** | **: 09:20** |
| **End Date** | **: 14 January 2023** |
| **End Time** | **: 11:00** |

**PERATURAN UJIAN:**

*Exam Regulations:*

* Peserta ujian tidak diperkenankan untuk bekerja sama dengan peserta ujian lainnya.

*Students are not allowed to discuss and/or cooperate with other students.*

* Peserta ujian tidak diperkenankan untuk membuka dan/atau menyalin jawaban dari buku, catatan, video, dan jenis referensi lainnya.

*Students are not allowed to open and/or copy answer from books, notes, videos, and other references,*

* Peserta ujian tidak diperkenankan untuk membuka dan/atau menyalin jawaban dari internet.

*Students are not allowed to open and/or copy answer from the internet.*

* Asisten berhak memberikan nilai nol bagi peserta ujian yang melakukan tindakan kecurangan.

*Assistant may give zero score for any student who does any cheating actions.*

* Jawaban yang dapat diterima dan dinilai adalah jawaban yang dikumpulkan sebelum batas waktu yang telah ditentukan.

*The answer must be submitted before the designated deadline to be accepted and graded.*

* Jika Anda tidak membaca peraturan ini, maka Anda dianggap sudah membaca dan menyetujuinya.

*By taking this exam, you agree to these regulations, regardless of whether you have read it or not,*



**SOFTWARE YANG DIGUNAKAN:**

*This exam uses the following software:*

* XAMPP 8.0.7

**FILE YANG DIKUMPULKAN:**

*The following files must be submitted:*

* SQL

**PERHATIAN!**

*Attention!*

* Apabila jawaban yang dikumpulkan tidak sesuai dengan tema soal, maka akan nilai akan dinolkan.

*Submitting an answer with a different theme from the given case will result in a score of zero.*

* Jawaban akan dinilai berdasarkan teknik yang diajarkan dalam praktikum dengan menggunakan software yang telah ditentukan.

*The scoring will be based on the materials taught during the practicum classes using the designated software. Using different software than requested may result in your answer not being graded.*

* Kompres jawaban yang akan diunggah dengan format [NIM]-[NAMA].zip.

*Compress all files that will be uploaded. The file name and extension must use the following format: [NIM]-[NAME].zip.*

**Soal**

*Case*

**AGuitar**

**AGuitar** is one of the shops that sell guitars in Indonesia. **AGuitar** sells guitars with various types of guitars and brands that exist over the world. Furthermore, each **AGuitar Customer** can buy **multiple guitars** in a single transaction and each transaction is handled by a **staff.**

A picture containing diagram

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***Figure 1. Entity Relationship Diagram (ERD)***

**Notes**

* Open **create+insert.sql** file (attached with the case), then **execute** the file on **MySQL.**
* Please **include the number of the question** in you answer SQL file.

1. **Import** and **use** the database **using SQL Query**.

**(USE)**

1. Display **GuitarID, GuitarName, BrandName** for every customer which the **GuitarName** consist of **more than 1 word**.

**(LIKE)**

**Graphical user interface, application

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1. Display **ID** (obtained from **StaffID**) and **Name** (obtained from **StaffName** in **uppercase** format) for every staff. Then, combine it with **ID** (obtained from **CustomerID**) and **Name** (obtained from **CustomerName** in **uppercase** format) for every customer who was **born after 2000**.

**(UPPER, UNION, YEAR)**

Table

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1. Display **‘Guitar Number’** (obtained from the **last 3 characters** from **GuitarID**), **Lower Guitar Name** (obtained from **GuitarName** in **lowercase** format) for every guitar whose **quantity is greater than 15** in one transaction detail. Then, combine it with **‘Guitar Number’** (obtained from the **last 3 digits** of **GuitarID**), ‘**Lower Guitar Name**’(obtained from **GuitarName** in **lowercase** format) for every guitar that has **BrandName** between **‘Gibson’ or ‘Taylor’.**

**(RIGHT, LOWER, UNION, IN)**

Graphical user interface

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1. Add ‘**Membership**’ as a new column on **MsCustomer** table with **char data type** with **size 3**. After that, **rollback** for cancel the change.

**(ALTER TABLE, ADD)**

**Before**

**Table

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**After**

**Table

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1. Delete data from **msguitar** for every guitar that transaction date occurred in **August** and the date is **greater than the 10th**.

**(DELETE, MONTH, DAY)**

**Before**

**Table

Description automatically generated**

**After**

**Table

Description automatically generated**

1. Display **StaffID**, **StaffName**, **GuitarID**, ‘**Day Name’** (obtained from **TransactionDate** **day name**) for every guitar having **quantity** **greater than 5** and the **StaffName** **contains** ‘**in**’.

**(DAYNAME, LOCATE)**

**Graphical user interface, text, application, chat or text message

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1. Display **GuitarID**, **BrandName**, **GuitarType**, **GuitarName**, **GuitarPrice** for every guitar that **GuitarName length greater than 5**. After that, **sort** the result by **GuitarPrice** from **lower price** to **higher price.**

**(LENGTH, ORDER BY)**

**Table

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1. Create a view named ‘**Guitar\_Detail**’ to display **GuitarName**, **BrandName**, **Guitar Price** (obtained from **GuitarPrice** that has been **formatted** with **2 digits** after comma), **Last Update Date** (obtained from **current date**).

**(CREATE VIEW, FORMAT, CURDATE)**

**Table

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**Notes: Last Update Date column data depends on current date, so the result will be different with result on the screenshot**

1. Create a view named ‘**View\_All\_Order**’ to display **TransactionID, StaffName, GuitarName** (obtained from **combining all GuitarName** grouped by the **TransactionID**)**, TransactionDate** (obtained from **TransactionDate** **[*3 characters of the day*]*,*** **[*day of month*] [*3 characters of the month*] [year]**) for every **transaction** that **occurred** in the **weekend.**

**(CREATE VIEW, GROUP\_CONCAT, DATE\_FORMAT, WEEKDAY)**

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